TRADE TRADE

Peter K. Trzyna (Reg. No. 32,601)

PATENT

Paper No.

File: AIS-P99-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor

Daniel L. Marks

Serial No.

09/399,578

Filed

September 20, 1999

For

GROUP COMMUNICATIONS MULTIPLEXING

SYSTEM

Group Art Unit

2145

Examiner

P. Winder

Honorable Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

SIR:

This Information Disclosure Statement is being filed pursuant to the duty of disclosure, candor, and good faith embodied in 37 C.F.R. §§ 1.56 and 1.97 owed by the inventor, the inventor's assignee substantively involved in the application, and the patent attorney to the United States Patent and Trademark Office. This Information Disclosure Statement accompanies two separate Form 1449 citations, one is 7 pages long, and the other is 2 pages long. A copy of each citation is enclosed herewith.

While the Information Disclosure Statement, publications, and other information provided by Applicant may be "material" pursuant to 37 C.F.R. § 1.56, it is not intended that these constitute an admission of "prior art" for this invention. This Information Disclosure

Statement shall not be construed to mean that no other material information, as defined in 37 C.F.R. § 1.56, exists.

Should any fees be deemed necessary, the Commissioner is authorized to charge any deficiency or to credit any over payment to Deposit Account No. 50-0235.

Respectfully submitted,

Date: June 9, 2005___

Peter K. Trzypła (Reg. No. 32,601)

P.O. Box 7131 Chicago, IL 60680-7131 (312) 240-0824

PTO/SB/08A (08-03)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

TRADENTE Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known			
Application Number	09/399,578		
Filing Date	09/20/1999		
First Named Inventor	Marks, Daniel L.		
Group Art Unit	2155		
Examiner Name	Winder, Patrice L.		
Attorney Docket Number	ALS-P1-99		

			U.S. PATENT DO	CUMENTS	
Examiner Initial*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	5,008,853	04/16/91	Bly, et al.	
	A2	5,659,692	08/19/97	Poggie, et al.	
	A3	4,525,779	06/25/85	Davids, et al.	
	A4	5,528,671	06/18/96	Ryu, et al.	
	A5				

		FOREIG	N PATENT DOC	CUMENTS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	6
Initials*	No. 1	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
	A6			1.		
	A7					

		OTHER ART NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
•	A8	Rules for IRC networking – Ratified July 6th 1994; Edited June 29th by #EU-Opers
	A9	Internet Relay Chat FAQ
	A10	IRC – Internet Relay Chat, doc/MANUAL; Copyright 1990, Karl Kleinpaste
	A11	Undemet IRC FAQ (Part I) (updated 28th July 1995) - Weekly Report
	.A12	Undemet IRC FAQ (Part II) (updated 28th July 1995) - Weekly Report
	A13	A short IRC primer, Edition 1.1b, February 28, 1993
	A14	Internet Relay Chat Protocol; J. Oikarinen, D. Reed; May 1993
	A15	Alta Vista: Simple Query +cu-seeme +history;
	A16	Mac OS CU-SeeMe Change History README file
	A17	GIF Image 627x324 pixtels
	A18	NetSpeak Information Server (IS);
	A19	WebPhone Gateway eXchange Server (WGX)
	A20	WebPhone® 3.1
	A21	NetSpeak Servers
	A22	NetSpeak Corporation – Corporate Overview

EXAMINER	DATE CONSIDERED	
SIGNATURE		·

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. Send TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1800-786-9199) and select option 2.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction act of 1995, no persona are required to respond to a collection of information unless it displays a valid OMB control number.

Complete if Known Substitute for form 1449A/PTO **Application Number** 09/399,578 Filing Date 09/20/1999 INFORMATION DISCLOSURE First Named Inventor 2155 STATEMENT BY APPLICANT Group Art Unit 2155 **Examiner Name** Winder, Patrice L (use as many sheets as necessary)) Attorney Docket Number Sheet Of 2

		OTHER ART NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	A23	NETSPEAK CORPORATION INTRODUCES WEBPHONE, INDUSTRY'S FIRST INTERNET- BASED TELEPHONE SOLUTION FOR BUSINESS USERS
4	A24	NetSpeak Network Component Architecture (NCA) Overview
	A25	Electropolis: Communication and Community On Internet Relay Chat; Elizabeth M. Reid 1991
	A26	CU-SeeMe, Updated: Thursday 21 December 1995
	A27	CU-SeeMe Tech-Toys

EXAMINER	DATE CONSIDERED
	· ·

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). ³See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Attorney Docket Number

Under the Paperwork I

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

-	Complete if Known	
Application Number	09/399,578	
Filing Date	09/20/1999	
First Named Inventor	Marks, Daniel L.	
Art Unit	2155	
Examiner Name	Winder, Patrice L.	

			U.S. PATENT	OCUMENTS	
Examiner Initials *	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevar Passages or Relevant
		Number - Kind Code ² (if known)			Figures Appear
	A1	US- 5,563,804	10/08/1996	Mortensen et al.	
	A2	US- 5,894,556	04/13/1999	Grimm et al.	
	A3	US- 5,951,694	09/14/1999	Choquier et al.	
	A4	US- 6,289,390 B1	09/11/2001	Kavner	
	A5	US- 4,525,779	06/25/1985	Davids et al.	
	A6	US- 5,008,853	04/16/1991	Bly et al.	1700
	A7	US- 5,528,671	06/18/1996	Ryu et al.	
	A8	US- 5,659,692	08/19/1997	Poggio et al.	
	A9	US- 5,724,508	03/03/1998	Harple, Jr. et al.	
	A10	US- 5,880,731	03/09/1999	Liles et al.	
	A11	US- 5,608,786	03/04/1997	Gordon	
	A12	US- 5,548,506	08/20/1996	Srinivasan	
	A13	US- 5,333,266	07/26/1994	Boaz et al.	
	A14	US- 5,793,365	08/11/1998	Tang et al.	
	A15	US- 5,960,173	09/28/1999	Tang et al.	
	A16	US- 5,740,231	04/14/1998	Cohn et al.	
	A17	US- 6,064,723	05/16/2000	Cohn et al.	
	A18	US- 5,761,201	06/02/1998	Vaudreuil	
	A19	US- 5,621,727	04/15/1997	Vaudreuil	
	A20	US 6,119,101	09/12/2000	Peckover	

		FOREIGN PA	TENT DOCU	MENTS		
Evaminar	Cito	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
Examiner Cite Initials* No.1		Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)		Applicant of Cited Document		T ⁶
Examiner Signature			Date Consid	ered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION BIOOL COLID	Application Number	09/399,578	
INFORMATION DISCLOSUR	riling Date	09/20/1999	
STATEMENT BY APPLICAN	First Named Inventor	Marks, Daniel L.	
	Art Unit	2155	
(Use as many sheets as necessary)	Examiner Name	Winder, Patrice L.	
Sheet 2 of 7	Attorney Docket Number		

Sheet	2	of / Attorney Docket Number		
_		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	A21	REAL TIME GROUPWARE ON THE INFORMATION HIGHWAY, Saul Greenberg, Department of Computer Science, University of Calgary, Alberta Canada (1994)		
	A22	REAL TIME GROUPWARE AS A DISTRIBUTED SYSTEM: CONCURRENTLY CONTROL AND ITS EFFECT ON THE THE INTERFACE, Saul Greenberg and David Marwood, Department of Computer Science, University of Calgary, Alberta Canada (1994)		
	A23	A GROUPWARE ENVIRONMENT FOR COMPLETE MEETINGS, Ted O'Grady and Saul Greenberg, The University of Calgary, Alberta Canada (1992)		
	A24	GROUP KIT A GROUPWARE TOOLKIT FOR BUILDING REAL-TIME CONFERENCING APPLICATIONS, Mark Roseman and Saul Greenberg, Department of Computer Science, University of Calgary, Alberta Canada, CSCW 92 Proceedings (1992)		
	A25	ISSUES AND EXPERIENCES DESIGNING AND IMPLEMENTING TWO GROUP DRAWING TOOLS, Saul Greenberg, Mark Roseman, David Webster and Ralph Bohnet, Department of Computer Science, University of Calgary, Alberta Canada (1992)		
	A26	LIVEWARE: A NEW APPROACH TO SHARING DATA IN SOCIAL NETWORKS, Ian H. Witten, Computer Science, University of Calgary, Canada, Harold W. Thimbleby, Computing Science, Stirling University, Stirling, Scotland, UK, George Coulouris, Queen Mary and Westfield Collete, London, Saul Greenberg, Computer Science, University of Calgary, Calgary, Canada (Received 1 May 1990 and accepted in revised form 1 August 1990)		
	A27	GROUPSKETCH: A MULT-USER SKETCHPAD FOR GEOGRAPHICAllY-DISTRIBUTED SMALL GROUPS, Saul Greenberg, Department of Computer Science, University of Calgary, Alberta Canada, Ralph Bohnet, MPR TelTech Ltd., Burnaby, Canada, CSCW (1991(b))		
	A28 THE WORLD WIDE WEB UNLEASHED, John December and Neil Randall, SAMS Publishing, Indianapolis, IN, (1994)			
	A29	PLATO: THE EMERGENCE OF ON-LINE COMMUNITY, Copyright 1994 by David R. Woolley, Matrix News, Vol. 4, No. 1, (1994)		
· .	A30	GTALK OWNERS MANUAL, David W. Jeske (1995)		
 	A31	MUDS GROW UP: SOCIAL VIRTUAL REALITY IN THE REAL WORLD; Pavel Curtis and David A. Nichols, Xerox Parc (1993)		
	A32	COLLABORATIVE NETWORKED COMMUNICATION: MUDS as Systems Tools, Remy Evard, 1993 Lisa, November 1-5, 1993.		
Examiner Signature		Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁵ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitut	te for form 1449A/PT	0		Complete if Known				
				Application Number	09/399,578			
INFO	DRMATION	DIS	CLOSURE	Filing Date	09/20/1999			
STA	TEMENT B	YA	PPLICANT	First Named Inventor	Marks, Daniel L.			
				Art Unit	2155			
	(Use as many sh	eets as	necessary)	Examiner Name	Winder, Patrice L.			
Sheet	3	of	7	Attorney Docket Number				

NON PATENT LITERATURE DOCUMENTS

A33	PROCEEDINGS OF THE SEVENTH SYSTEMS ADMINISTRATION CONFERENCE (LISA VII), Monterey, CA, USENIX Association, (1993) (One Page)
A34	ROLE-P0LAYING & ADVENTURE DUNGEONS & DRAGONS, Net Games, p. 67
A35	THE HISTORY OF NWN, Neverwinter Nights Archive (1991-1997), netgames™ YOUR GUIDE TO THE GAMES PEOPLE PLAY ON THE ELECTRONIC HIGHWAY, A Michael Wollf Book, Kelly Maloni, Derek Baker and Nathaniel Wice
A36	BAUDY TALES FROM THE CYBURBS: A GUIDE TO ON-LINE GAMES, (includes related articles on UseNet Message Groups and Suggested reading (Evaluation) (Software Review), Full Text: COPYRIGHT 1994 zdnet, Computer Gaming World, v 123 (1994)
A37	AMS: Area Message Service for SLC, M. Crane, R. Mackenzie, D. Millsom, M. Zelazny, Stamford Linear Accelerator Center, Stanford University, Stanford, CA, PAC (1993)
A38	AN EXPERIMENTAL MULTI-MEDIA BRIDGING SYSTEM, E.J. Addeo, A.B. Dayao, A.D. Gelman, V.F. Massa, Bell Communications Research, Morristown, NJ, ACM (1988)
A39	QUILT: A COLLABORATIVE TOOL FOR COOPERATIVE WRITING, Robert S. Fish, Robert E. Kraut, Mary D. P. Leland, Bell Communications Research, Michael Cohen, University of Washington, ACM (1988)
A40	RFC 1459 INTERNET RELAY CHAT PROTOCAL, J. Oikarinen, D. Reed (1993)
A41	WSCRAWL 2.0: A SHARED WHITEBOARD BASED ON X-WINDOWS, Brian Wilson
A42	GROUPWARE FOR REAL-TIME DRAWING - A DESIGNER'S GUIDE, Saul Greenberg, Stephen Hayne, Roy Rada, McGraw-Hill Book Company, Berkshire, England (1995)
A43	COLLABORATIVE DOCUMENT PRODUCTION USING QUILT, Mary D.P. Leland, Robert S. Fish and Robert E. Kraut, Bell Communications Research, Inc, Morristown, NJ ACM (1988)
A44	THE RAPPORT MULTIMEDIA CONFERENCING SYSTEM, S.R. Ahuja, J. Robert Ensor and David N. Horn, AT&T Bell Laboratories, Holmdel, NJ, ACM (1988)
A45	SOFTWARE ARCHITECTURE FOR INTEGRATION OF VIDEO SERVICES IN THE ETHERPHONE SYSTEM, P. Venkat Rangan, Member, IEEE, and Daniel C. Swinehart, Member, IEEE (1991)
A46	MULTIMEDIA CONFERENCING IN THE ETHERPHONE ENVIRONMENT, Harrick V. Vin, Polle T. Zellweger, Daniel C. Swinehart, and P. Venkat Rangan, Xerox Palo Alto Research Center, (1991)
A47	TOOLS FOR SUPPORTING THE COLLABORATIVE PROCESS, James R. Rhyne, Catherine G. Wolf, IBM Thomas J. Watson Research Center, Yorktown Heights, NY, UIST (1992)
A48	SYSTEM SUPPORT FOR COMPUTER MULTIMEDIA COLLABORATIONS, Harrick M. Vin, P. Venkrat Rangan, University of California at San Diego, LaJolla, CA, Mon-Song Chen, IBM T. J. Watson Research Center, Yorktown Heights, NY, CSCW 92 Proceedings (1992)

	 <u> </u>	
Examiner Signature	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached. The information is attached. The control of the patent document is a control of the patent document with the patent document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached. The information is attached. The patent document is a patent document. If the patent document is a patent document with the patent document with the patent document. The patent document is a patent document. The patent document with the patent document with the patent document with the patent document with the patent document. The patent document with the patent document

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Substitute for form 1449A/PTO

Complete if Known Application Number 09/399,578 Filing Date 09/20/1999 First Named Inventor Marks, Daniel L. Art Unit 2155 Examiner Name Winder, Patrice L.

(Use as many sheets as necessary)

Sheet 4 of 7 Attorney Docket Number NON PATENT LITERATURE DOCUMENTS COLLABORATION IN KMS, A SHARED HYPERMEDIA SYSTEM, Elise Yoder, Robert Aksyn, Donald A49 McCracken, Knowledge Systems Incorporated, Murrysville, PA, ACM (1989) THE RENDEZVOUSD ARCHITECTURE AND LANGUAGE FOR CONSTRUCTING MULTIUSER A50 APPLICATIONS, Ralph D. Hill, Tom Brinck, Steven Rohall, John F. Patterson and Wayne Wilner, ACM Transactions on Computer-Human Interaction, Vol. 1, No. 2 (1994) COLLABORATION SUPPORT PROVISIONS IN AUGMENT, Douglas C. Engelbart, Tymshare, Inc. (1983) A51 BUILDING REAL-TIME GROUPWARE WITH GROUPKIT, A GROUPWARE TOOLKIT, Mark Roseman and Saul A52 Greenberg, University of Calgary, ACM Transactions on Computer-Human Interaction, Vol. 3, No. 1, (1996) ARCHITECTURE FOR A MULTIMEDIA TELECONFERENCING SYSTEM, L. Aguilar, J.J. Garcia-Luna-Aceves, D. Moran, E.J. Craighill, R. Brungardt, Information Services and Technology Center, SSRI International, Menlo A53 Park, CA, ACM (1986) SPECIAL ISSUE ON CSCW: PART 1, HUMAN AND TECHNICAL FACTORS OF DISTRIBUTED GROUP A54 DRAWING TOOLS, Saul Greenberg, Mark Roseman, Dave Webster and Ralph Bohnet, Interacting With Computers, Vol. 4, No. 3 (1992) DESIGN OF A MULTI-MEDIA VEHICALE FOR SOCIAL BROWSING, Robert W. Root, Bell Communications A55 Research, NJ, ACM (1988) SUPPORTING COLLABORATIVE WRITING OF HYPERDOCUMENTS IN SEPIA, Jorg M. Haake and Brian A56 Wilson, GMD-IPSI, Federal Republic of Germany, CSCW 92 Proceedings (1992) FILLING HTML FORMS SIMULTANEOUSLY: COWEB-ARCHITECTURE AND FUNCTIONALITY, Stephen A57 Jacobs, Michael Gebhardt, Stefanie Kethers, Wojtek Rzasa, RWTH Aachen, Informatik V, Fifth International World Wide Web Conference, Paris, France (May 1996) THE WHOLE INTERNET, USER'S GUIDE & CATALOG ACADEMIC EDITION, Ed Krol, Bruce C. Klopfenstein, A58 Ph.D., Bowling Green State University, An Imprint of Wadsworth Publishing Company WEBCHAT 0.2 SOURCE DISTRIBUTION, e-mail from Michael Fremont, Internet Roundtable Society, dated A59 February 10, 1995 SUPPORTING DEVELOPMENT OF SYNCHRONOUS COLLABORATION TOOLS ON THE WEB WITH GROCO, A60 Michael Walther, Proceedings of the ERCIM workshop on CSCW and the Web, Sankt Augustin, Germany (Feb. 7-THE UNIVERSITY OF CALGARY, DESIGN OF REAL-TIME GROUPWARE TOOLKIT, Mark Roseman, A THESIS SUBMITTED TO THE FACULTY OF GRADUATE STUDIES IN PARTIAL FULFILLMENT OF THE A61 REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE, Department of Computer Science, Calgary, Alberta (Feb. 1993) SESSION MANAGEMENT FOR COLLABORATIVE APPLICATIONS, W. Keith Edwards, Graphics, Visualization A62 & Usability Center College of Computing, Georgia Institute of Technology, GA, Association for Computer Machinery, Published in Proceedings of the ACM Conference on Computer-/supported Work (CSCW '94) SOCIAL ACTIVITY INDICATORS: INTERFACE COMPONENTS FOR CSCW SYSTEMS, Mark S. Ackerman, Brian Starr, Department of Information and Computer Science, University of California, Irvine, UIST (No. 14-17 (1995)A63 Date Examiner Considered Signature

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known 09/399,578 Application Number Filing Date 09/20/1999 Marks, Daniel L. First Named Inventor Art Unit 2155 Winder, Patrice L. Examiner Name

(Use as many sheets as necessary)

Sheet	5		of	7			Attorne	y Docket Number	r		
					NON PA	ATENT LIT	ΓERAT	JRE DOCUMENTS			
	SOCIAL ACTIVITY INDICATORS: INTERFACE COMPONENTS FOR CSCW SYSTEMS, SYMPOSIUM ON USER INTERFACE SOFTWARE AND TECHNOLOGY, Proceedings of the 8 th Annual ACM Symposium on Interface and Software Technology, Pittsburgh, PA (1995)										
	DISTVIEW: SUPPORT FOR BUILDING EFFICIENT COLLABORATIVE APPLICAT OBJECTS, Atul Prakash and Hyong Sop Shim, Software Systems Research Labora Engineering and Computer Science, University of Michigan, MI ACM (1994)									LICATIONS USING REPLICATED Laboratory, Department of Electrical	
	A66	GTAL	GTALK SOURCE LICENSE AGREEMENT, David W. Jeske, 08/02/1998)								
	A67	ENGLEBART DOUGLAS C.: "Authorship Provisions in AUGMENT" COMPCON '84 Digest: Proceedings of the COMPCON Conference, San Francisco, CA, February 27 - March 1, 1984, pp. 465-472									
	A68	ENGLI the AF	EBART IPS Of	, DOUGL fice Autor	AS C.: "Towanation Confe	ard High-F erence, Sa	Performa n Franc	ance Knowledge Wo isco, CA, April 5-7 19	orker 982,	s." OAC '82 Digest, Proceedings of pp. 279-290	
	A69				ymous collat lly 1994, Pag			ative technique for v	worki	ng together" ACM SIGCHI Bulletin	
	A70	Secon	d Work	AB, HUS shop on I	Enabling Tec	ble Informa hnologies	ation Se Infrastr	ervice for Internet Co ucture for Collaborat	mpu tive E	ater Conferencing" Proceedings , Enterprises, IEEE Comput. Soc.	
	A71	FREN	FRENCH, ROBERT S ET AL: "The Zephyr Programmer's Manual" Protocol Version ZEPH0.2, April 5, 1989								
	A72	Service	FERMANN, CARLA J.:"Distributed consulting in a distributed environment" New Centerings in Computing Services, Proceedings of the 18th annual ACM SIGUCCS conference on User services Cincinnati, Ohio, United States, 1990 Pages: 117-120								
	A73	Shell =	: /bin/sh	1							
- 170	A74	COHEN, ABBE: "Inessential Zephyr" The Student Information Processing Board, August 23, 1993									
	A75	FRENCH, ROBERT /mit/zephyr/repository/zephyr/clients/zaway/zaway.c, v \$; Copyright (c) 1987, 1993 by the Massachusetts Institute of Technology. * *									
	A76	SUNKAVALLY, N ET AL: "Using MIT's Athena Computing System" The Tech, Volume 119, Number 39, Thursday, September 2, 1999.									
	A77		TONY DELLA FERA ET AL.: "Zephyr - Sephyr Notification Service" MIT Project Athena (July 1, 1988) Zephyr Notification Service								
-	A78		HORUS: A FLEXIBLE GROUP COMMUNICATIONS SYSTEM, Robbert van Renesse, Kenneth P. Birman, and Silvano Maffeis, Department of Computer Science, Cornell University								
	A79		HORUS: A FLEXIBLE GROUP COMMUNICATIONS SYSTEM, Robbert van Renesse, Kenneth P. Birman, and Silvano Maffeis, Communications of the ACN, April 1996, Volume 39, No. 4								
	A80	FREN 1988	CH RO	BERT S.:	"Zaway - tel	l other peo	ople via	Zephyr that you are	n't ai	round" MIT Project Athena, July 1,	
Examiner Signature				-				Date Considered			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation

is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

	Complete if Known				
Application Number	09/399,578				
Filing Date	09/20/1999 Marks, Daniel L.				
NT First Named Inventor					
Art Unit	2155				
Examiner Name	Winder, Patrice L.				
Attorney Docket Number	·				
	Filing Date First Named Inventor Art Unit Examiner Name				

Sheet	6	of / Attorney Docket Number								
		NON PATENT LITERATURE DOCUMENTS								
	A81	KURLANDER, DAVID ET AL: "Comic Chat" Proceedings of SIGGRAPH'96 (New Orleans, August 1996), Computer Graphics Proceedings, Annual Conference Series, pages 225-236, New York, 1996. ACM SIGGRAPH								
	A82	Eggheads.org - Main Index, page 1 or 1								
	A83	IRC.NET - "IRC.NET - IRC History Our Version",								
	MAES, P: "Artificial Life meets Entertainment: Interacting with Lifelike Autonomous Agents", In: Special Issue on New Horizons of Commercial and Industrial AI 38, 11 (1995) 108-114, Communications of the ACM, ACM Press.									
	A85	LEONARD ANDREW: "Bots are Hot" Wired 4.04								
	A86	WALKER, JANET H. ET AL: "Using a Human Face in an Interface", ACM Human Factors in Computing Systems, April 24-28, 1994 pages 85-91.								
	"Visual Dialog Showing Speech Interaction with an Intelligent Agent" IBM Technical Disclosure Bulletine, Volum 39, Number 1, January 1996, pages 237-239									
	A88	AN INTELLIGENT NETWORK SERVICE PROTOTYPE USING KNOWLEDGE PROCESSING, Int. Conf. On Tools for AI (1991)								
	A89 JULIA'S HOME PAGE, Julie, a Chatterbot (Dec. 19, 1994)									
	A90	CHATTERBOTS, TINYMUDS, AND THE TURING TEST, Entering the Loebner Price Competition (Jan. 24, 1994)								
	A91	ENTERTAINING AGENTS: JULIA (1993)								
	A92	WHAT IS AN AGENT, ANYWAY? A SOCIOLOGICAL CASE STUDY, Leonard N. Foner, (May 1993)								
A93 SOCIAL ACTIVITY INDICATORS: INTERFACE COMPONENTS FOR CSCW SYSTEMS, Mark S. Ackerm Brian Starr, Dept. of Info. And Computer Science, Univ. of California, Irvine (Nov. 14-17, 1995) UIST '95										
SOFTWARE SECRETARIES: LEARNING AND NEGOTIATING PERSONAL ASSISTANTS FOR THE DAIL OFFICE WORK, Siegfried Bocionek, Siemens AG, Munich, Germany (1994 IEEE)										
Examiner Signature		Date Considered								

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language

Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO Complete if Known 09/399,578 Application Number INFORMATION DISCLOSURE Filing Date 09/20/1999 STATEMENT BY APPLICANT Marks, Daniel L. First Named Inventor Art Unit 2155 (Use as many sheets as necessary) Examiner Name Winder, Patrice L. of | 7 Sheet 7 Attorney Docket Number NON PATENT LITERATURE DOCUMENTS MUDs IN EDUCATION: NEW ENVIRONMENTS, NEW PEDAGOGIES, Tari Lin Fanderclai, COMPUTER --A95 MEDIATED COMMUNICATION Magazine, Vol. 2, No. 1, January 1, 1995. THE EVOLUTION OF INTERCAT-SCALE EVENT NOTIFICATION SERVICES: PAST, PRESENT AND A96 FUTURE, Adam Rifkin and Rohit Khare, August 10, 1998. THE MATURATION OF COMPUTER - MEDIATED COMMUNICATION; Gregory B. Newby, Graduate School of A97 Library and Information Science, University of Illinois at Urbana-Champaign. DISCUSS: AN ELECTRONIC CONFERENCING SYSTEM FOR A DISTRIBUTED COMPUTING A98 ENVIRONMENT, Ken Raeburn et al., Project Athena, Massachusetts Institute of Technology, Cambridge, MA THE ZEPHYR HELP ASSISTANCE: PROMOTING ONGOING ACTIVITY IN A CSCW SYSTEM; Mark Ackerman A99 and Leysia Palen, Department of Information and Computer Science, University of Caliofornia, Irvine (to appear in the Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '96)) THE ZEPHYR NOTIFICATION SERVICE, C. Anthony DellaFera et al., Digital Equipment Corp., Project Athena, A100 Massachusetts Institute of Technology, Cambridge, MA.

Examiner Signature				Date Considered		

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.